Accessory Installation Instructions

MODEL NUMBER : VXR-1000
Description: Interconnection to VX-6000
Special Notes: The VX-6000 must have firmware v3.00 or later
The VX-6000 must be in a single-deck installation only
Use CE-49 v2.2.3.0 or later programming software

Please also refer to the VXR-1000 Service Manual and your radio's service manual for further guidance on installations.

Section I – Wiring Interconnections

FUNCTION	VXR-1000 DB-9	RADIO
Signal Ground	1 Brown (Black)	DSUB-25, pin 7
Mobile TX Audio	2 Red (Brown)	DSUB-25, pin 13
Power Supply Control	3 Orange (Red)	DSUB-25, pin 8
Mobile PTT Output	4 Yellow	DSUB-25, pin 11
Vcc (13.8 V)	5 Green	DSUB-25, pin 14 *
Mobile RX Audio	6 Blue	DSUB-25, pin 17
Mobile (valid) COR Detect	7 Purple	DSUB-25, pin24
Mobile Mic. Audio	8 Gray	DSUB-25, pin 19 *
Mobile TX Detect	9 White	DSUB-25, pin 12

Notes:

Color codes in parentheses refer to interconnection cables supplied with VXR-1000s in Lots 03 (VHF) and Lots 04 (UHF) and higher.

* Internal modifications to the VX-6000 are required for these connections. See Section III.

Section II – VXR-1000 Programming (CE-22 software)

PARAMETER	SET TO
PTT1 State	Low
PTT2 State	Low
Pre-Emphasis	Off
De-Emphasis	Off
EXT MIC Level	High
EXT MOD Level	Low

Section III – Other Modifications or Programming

1. Make the following modifications inside the VX-6000:
   - Locate the solder jumpers in the VX-6000 (near the DC power input leads). Set them as follows:
     - JP1 – closed
     - JP2 – closed
     - JP3 – open
     - JP4 – closed
     - JP5 – open
     - JP6 – closed
     - JP7 – open
     - JP8 - open
     - JP9 - open

   - Add a jumper wire from the radio's B+ input to J2002(low band) J2001(VHF & UHF), pin 2. (This provides Vcc power for the VXR-1000.) * This is only necessary if you are not using an external power source to the VXR-1000
   - Add a jumper wire from Q2007, pin 10 to J2002(low band) J2001(VHF & UHF), pin 12. (This routes the VX-6000's mic audio out to the VXR-1000.) * This is only necessary if you need the mobile to speak to the portable through the VXR-1000

2. Set the following program parameters in the VX-6000 via the CE-49 software:
   - In Common Data – Key Assignment, set any one of the keys for the "A" function. (This key will be used to switch the VXR-1000 on and off. The "A" icon will be shown in the radio's display when the VXR-1000 is switched on. You may alternately use the "B" or "C" functions if preferred.)
   - In Common Data – DSUB-25 – Output Port, set A-Key Out for the "A Port" function (or "B" or "C" as above) with Invert polarity.
   - In Common Data – DSUB-25 – Output Port, set External SQL for Normal polarity.

3. Make the following solder jumper changes inside the VXR-1000:
   - JP4 – open
   - JP5 – closed

4. Align VR1001, VR1002, and VR1007 inside the VXR-1000 for best audio balance.

5. Use the microphone on the VX-6000 only. Do NOT use a microphone on the VXR-1000.

Other programming and setup of the VXR-1000, the associated portable radio, and the connected mobile radio are required. These must be accomplished by a knowledgeable installer/technician consistent with the equipment's capabilities and the end user's requirements. There are many possible optional configurations.